

Agenda

CERES Science Team Meeting

**Marriott Hotel
City Center at Oyster Point, Newport News VA
April 28-30, 2009**

Major Objectives for the Meeting:

- 1. *Review status of CERES Instruments and Data Products:***
 - Status of CERES/NASA/EOS/Senior Reviews and CERES on NPP and NPOESS
 - Terra and Aqua SW/LW/TOTAL channel calibration for Edition 3; CERES FM5, FM6 Update
 - Edition 3 cloud algorithm development and validation
 - CRS Edition 2 Validation
 - Update on SYN/AVG/ZAVG: the Level 3 Gridded Version of Computed TOA/ATM/SFC fluxes
 - Extending SRBAVG, ISCCP-like-GEO and SYN/AVG/ZAVG to August 2007: Overcoming MTSAT Calibration Challenges.
 - ISCCP-like MODIS & GEO Data Products
 - Data Management Team Update: Terra/Aqua/NPP
 - Atmospheric Sciences Data Center (ASDC) Update
 - Overview of the NPP Science Data Segment
 - SCOOOL Update & S'COOL Rover observations (see overpass times on p. 4).
 - GEOS-5 Update
- 2. *CERES specific Co-I Reports. Each report is 20min including time for questions.***
- 3. *Posters on Display Throughout Meeting.***
 - Poster #1: NPP Science Data Segment - Schwiess et al.
 - Poster #2: NPP Science Data Segment: Data Flow Diagram – Schweiss et al.
 - Poster #3: Overview of SDS NPP Instrument Calibration Support Element (NICSE) – Sikorski et al.

Meeting Minutes: PDF

We plan to publish the minutes of the meeting electronically, so please send an electronic copy of your presentation to Jim Closs (james.w.closs@nasa.gov) either before or following the meeting. Desired format is a pdf document.

**Dutch Treat Dinner: 6:30pm Tuesday Evening
(Red Star Tavern. Across from Marriott on other side of fountain)**

Tuesday, April 28

Marriott Hotel City Center at Oyster Point

8:00 am Coffee/Danish

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|---------|---|------------------|
| 8:30 am | Meeting Logistics, Welcome | <i>N. Loeb</i> |
| 8:40 am | State of CERES/NASA/EOS/Senior Reviews/ CERES on NPP and NPOESS/Decadal Survey Missions | <i>N. Loeb</i> |
| 9:20 am | CERES FM1-FM6 Instrument Status Report | <i>Priestley</i> |

10:20 am Break

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|----------|---|--------------------|
| 10:40 am | Update on CERES Edition 3 Cloud Algorithm | <i>P. Minnis</i> |
| 11:20 am | Improvements in the Surface-Only Flux Algorithms Beyond Edition 2B | <i>Kratz/Gupta</i> |
| 11:40 am | Developments in Surface and Atmosphere Radiation Budget (SARB/CRS) and Checks with Independent Data | <i>T. Charlock</i> |

12:10 pm Lunch

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| 2:00 pm | Time-Space Averaging Update | <i>Doelling/Sun</i> |
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3:00 pm Break

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| 3:20 pm | CERES Data Management Team (DMT) Update | <i>E. Geier</i> |
| 3:50 pm | Atmospheric Sciences Data Center (ASDC) Update | <i>Kusterer/Little</i> |
| 4:20 pm | NPP Science Data Segment (SDS): A Brief Overview | <i>R. Wolfe</i> |
| 4:40 pm | S'COOL Update | <i>L. Chambers</i> |

5:00 pm Adjourn

6:30 pm Dutch Treat Dinner: Red Star Tavern

Wednesday, April 29

Marriott Hotel City Center at Oyster Point

8:00 am **Coffee/Danish**

8:30 am **Working Group Sessions**

All

Angular Modeling (Loeb et al.)

Surface to TOA Fluxes (Charlock et al.)

Cloud Properties (Minnis et al.)

Co-I Reports

9:30 am MODIS Aerosol Assimilation for SARB

D. Fillmore

9:50 am The GEOS-5 System and Future Plans

M. Rienecker

10:10 am Break

INVITED PRESENTATIONS

10:30 am Separating Feedback from Forcing in CERES and Climate Model
Radiative Fluxes with Phase Space Analysis

R. Spencer

11:15 am Clouds in the Climate System: Why is This Such a Difficult Problem, and
Where Do We Go From Here?

J. Norris

12:00 pm **Lunch**

Co-I Reports

1:30 pm Dynamically and Thermal-Dynamically Stratified Aerosol and Cloud
Interaction

W. Su

1:50 pm TOA Global Component Aerosol Direct Radiative Effect

T. Zhao

2:10 pm Variations in Terra Cloud Properties with SST Anomaly

Z. Eitzen

2:30 pm Working with CERES data to test parameterizations in CAM

G. Potter

2:50 pm Satellite observations of global and regional energy budgets

B. Lin

3:10 pm Break

Co-I Reports: Continued

3:30 pm Global warming due to increasing absorbed solar radiation

J. Fasullo

3:50 pm NOAA 9 Radiation Budget Data Upgrade

L. Smith

4:10 pm Overview of CALIPSO-CloudSat-CERES-MODIS merged product

S. Kato

4:30 pm Radiative Flux Anomalies from 2000 to 2008 based on Combined CERES
and FLASHFLUX Data

T. Wong

4:50 pm An Estimate of Infrared Radiation Forcing by Sub-Visual Ice Clouds

W. Sun

5:10 pm Adjourn

Thursday, April 30

Marriott Hotel City Center at Oyster Point

8:00 am **Coffee/Danish**

Co-I Reports: Continued.

8:30 am	Cloud Forcing of Surface Radiation	<i>P. Mlynczak</i>
8:50 am	Cloud Properties from MODIS, CERES-MODIS Observations and CAM3 Simulations	<i>Y. Li</i>
9:10 am	Arctic Clouds and Their Impact on Surface and TOA Radiation Budget	<i>X. Dong</i>
9:30 am	The Ed3-Beta2 Modified Algorithms for Multilayer Cloud Property Retrievals	<i>F. Chang</i>
9:50 am	Break	
10:10 am	Effect of the Inhomogeneity of Ice Crystals on Retrieving Ice Cloud Optical Thickness and Effective Particle Size	<i>Y. Xie</i>
10:30 am	Identifying Opaque and Non-Opaque Tropical Upper-Tropospheric Ice Clouds from Measurements of MODIS 8.5, 11, and 12 μm Bands	<i>G. Hong</i>
10:50 am	Action Items, Final Discussion	<i>Loeb</i>
11:00 am	Adjourn	

Summary of Terra and Aqua Overpass Times

Tuesday

12:41 am Terra overpass

2:24 pm Aqua overpass

Wednesday

11:47 am Terra Overpass

1:29 pm Aqua Overpass

Thursday

12:29 pm Terra Overpass

2:12 pm Aqua overpass